

Sheet 1 of 1

Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number: MERL-1465	Serial Number: 10/734,451
<b>INFORMATION DISCLOSURE CITATION</b>  (Use several sheets if necessary)		Applicant: Xie, et al.	
		Filing date: December 12, 2003	Group art area:

## U.S. PATENT DOCUMENTS

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate
JFC	5,828,809	Oct. 27, 1998	Chang et al.	386	69	

## FOREIGN PATENT DOCUMENTS

	Document number	Date	Country	Class	Subclass	Translation	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

JFC	1.	Rabiner, "A tutorial on hidden Markov models and selected applications in speech recognition," Proceedings of the IEEE, Vol. 77, pp. 257-285, February 1989
	2.	Wang et al., "Multimedia content analysis using both audio and visual clues," IEEE Signal Processing Magazine, Vol. 17, pp. 12-36, November 2000
	3.	Xie et al., "Structure analysis of soccer video with hidden Markov models," Proc. International Conference on Acoustic, Speech and Signal Processing (ICASSP), 2002
	4.	Xie et al., "Learning hierarchical hidden Markov models for video structure discovery," Tech. Rep. 2002-006, ADVENT Group, Columbia University, 2002, December 2002
	5.	Clarkson et al., "Unsupervised clustering of ambulatory audio and video," International Conference on Acoustic, Speech and Signal Processing (ICASSP), 1999
	6.	Langrognet et al., "A Gentle Tutorial on the EM Algorithm and its Application to Parameter Estimation for Gaussian Mixture and Hidden Markov Models," Technical Report, University of Berkeley, ICSI-TR-97-021, 1997
	7.	Husmeier et al., "Bayesian Approaches to Gaussian Mixture Modelling," IEEE Transactions on Pattern Analysis and Machine Intelligence, Vol. 20, No. 11, 1133-1142, 1998
	8.	Yeung et al., "Time-constrained clustering for segmentation of video into story units," Proceedings International Conference on Pattern Recognition (ICPR), 1996
	9.	Naphade et al., "Discovering recurrent events in video using unsupervised methods," Proc. Intl. Conf. Image Processing, 2002
Examiner: J.F. Cunningham		Date Considered: 3/26/07
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.		